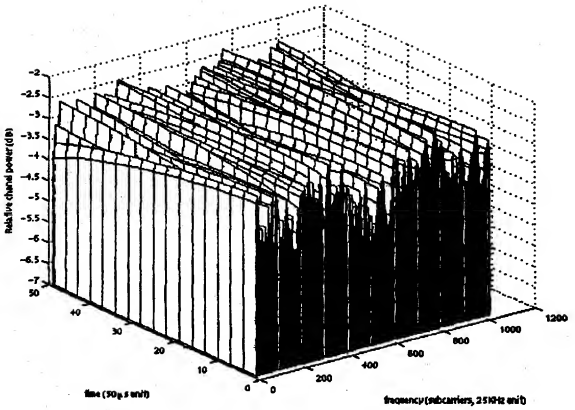
Relative channel power (dB)
-2
-2.5
-3
-3.5
-4
-4.5
-5
-5.5
-6
-6.5
-7
50
40
30
20
10
0
time (30μ s unit)
0
200
400
600
800
1000
1200
frequency (subcarriers, 25KHz unit)

FIG. 1

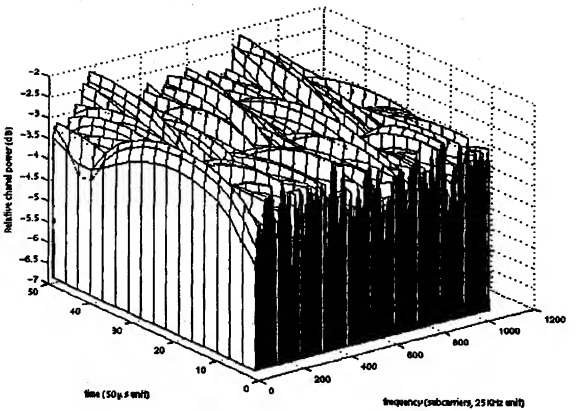
Relative channel power (dB)
-2
-2.5
-3
-3.5
-4
-4.5
-5
-5.5
-6
-6.5
-7
50
40
30
20
10
0
time (50 μ s unit)
0
200
400
600
800
1000
1200
frequency (subcarriers, 25 KHz unit)

FIG. 2

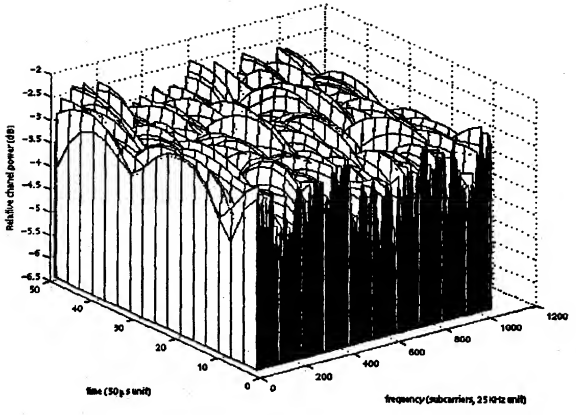
Relative channel power (dB)
-2
-2.5
-3
-3.5
-4
-4.5
-5
-5.5
-6
-6.5
50
40
30
20
10
0
time (50 μ s unit)
0
200
400
600
800
1000
1200
frequency (subcarriers, 25 kHz unit)

FIG. 3

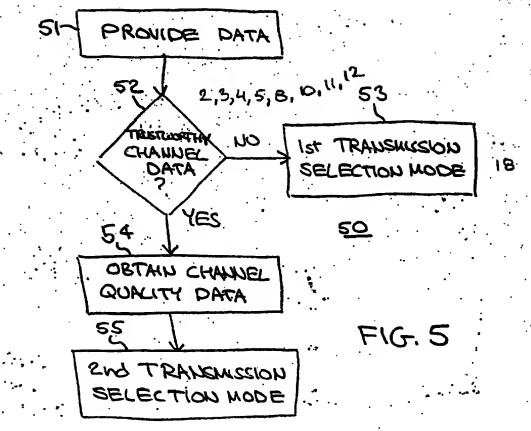
51
PROVIDE DATA
52
2,3,4,5,8,10,11,12
53
TRUSTWORTHY CHANNEL DATA ?
NO
1st TRANSMISSION SELECTION MODE
18
YES
50
54
OBTAIN CHANNEL QUALITY DATA
21,
24,
55
2nd TRANSMISSION SELECTION MODE
14, 15
20

FIG. 5

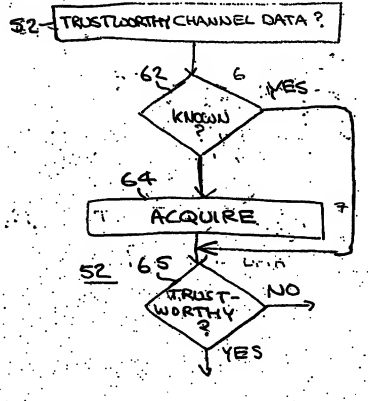
52
TRUSTWORTHY CHANNEL DATA ?
62
6
YES
KNOWN ?
64
ACQUIRE
52
65
TRUST-WORTHY ?
NO
YES

FIG. 6

2007140.6605001

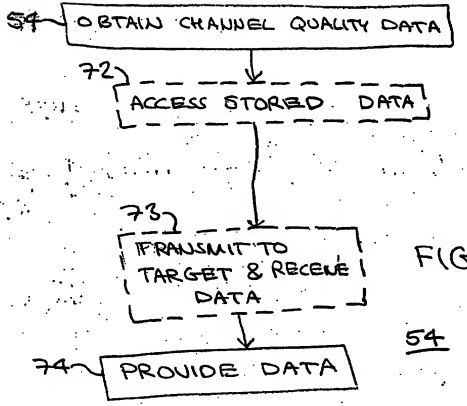


FIG. 7

54

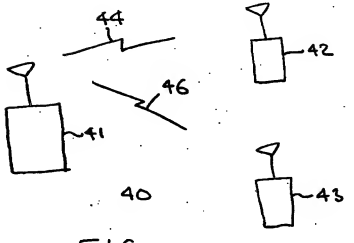


FIG. 4

84
87
FREQUENCY
RCCH
USER TYPE 1
USER TYPE 1
USER TYPE 1
TYPE 1
TYPE 2
TYPE 2
TYPE 2
TYPE 1
TYPE 1
USER TYPE 1
USER TYPE 1
USER TYPE 1
USER TYPE 1
USER TYPE 2
USER TYPE 2
FSCH
FCH
83
81
85
82
86
DOWNLINK
UPLINK

FIG. 8


USER 2
USER 1
95
94
96
92
93
MCS 2
MCS 3
MCS 4
83
84
86
USER 1 (MCS 4)
USER 2 (MCS 2)
USER 1 (MCS 3)
USER (MCS 4)
RCCH
FCH
81

FIG. 9

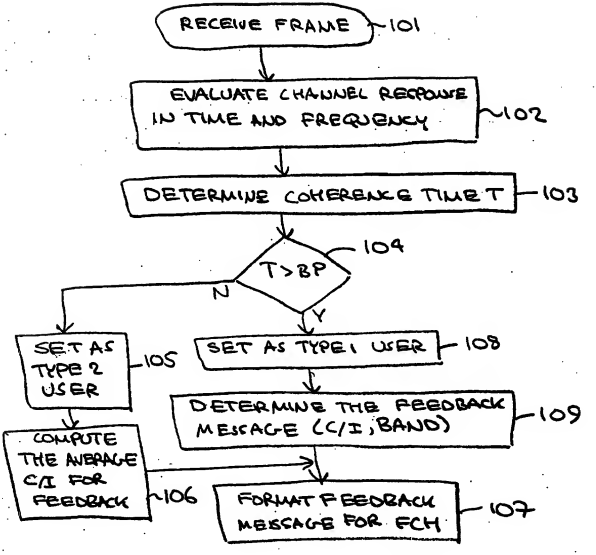
RECEIVE FRAME
101
EVALUATE CHANNEL RESPONSE IN TIME AND FREQUENCY
102
DETERMINE COHERENCE TIME T
103
T>BP
104
N
Y
SET AS TYPE 2 USER
105
SET AS TYPE 1 USER
108
DETERMINE THE FEEDBACK MESSAGE (C/I, BAND)
109
COMPUTE THE AVERAGE C/I FOR FEEDBACK
106
FORMAT FEEDBACK MESSAGE FOR FCH
107

FIG. 10

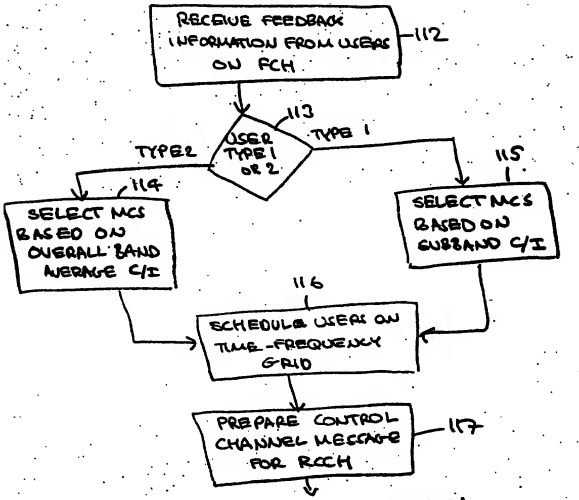
RECEIVE FEEDBACK INFORMATION FROM USERS ON FCH
112
USER TYPE 1 OR 2
113
TYPE 2
TYPE 1
SELECT MCS BASED ON OVERALL BAND AVERAGE C/I
114
SELECT MCS BASED ON SUBBAND C/I
115
SCHEDULE USER ON TIME-FREQUENCY GRID
116
PREPARE CONTROL CHANNEL MESSAGE FOR RCCH
117

FIG. 11